

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/553,788 ✓
Applicant (s) : Michie et al.
Filed : October 20, 2005
TC/A.U. : unknown
Examiner : unknown
Title : POLYMER COMPOSITION AND PROCESS TO
MANUFACTURE HIGH MOLECULAR WEIGHT-HIGH
DENSITY POLYETHYLENE AND FILM THEREFROM
Docket No. : 63138a
Customer No. : 00109

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING
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February 24, 2006

DATE OF DEPOSIT

Carol A. Axtell

PRINT OR TYPE NAME OF PERSON SIGNING CERTIFICATE

SIGNATURE OF PERSON SIGNING CERTIFICATE

2/24/06
DATE OF SIGNATURE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the
Examiner's attention is directed to the information identified in the attached Form
PTO/SB/08a.

An internal database indicates that a polymer that was probably made by a
process within the scope of Claim 1, as filed, was invoiced in April of 2003.

The cited U.S. patents and patent application publications are listed on Form
PTO/SB/08a. A copy of the cited foreign patent documents and non-patent literature
are enclosed herewith.

Appln. No10/553,788
February 14, 2006

The Examiner is requested to review each reference and formulate his/her own understanding thereof.

Respectfully submitted,



Carol J. Cavender
Registration No. 27,619
Phone: 979-238-3581

P. O. Box 1967
Midland, MI 48641-1967

CJC/caa

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/553,788
		Filing Date	October 20, 2005
		First Named Inventor	Michie et al.
		Art Unit	Not Assigned
		Examiner Name	Not Assigned
Sheet 1	of 11	Attorney Docket Number	6138A

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² <i>(if known)</i>			
		US3280220	10/18/66	Nelson	
		US3592880	07/13/71	Diedrich et al.	
		US3914342	10/21/75	Mitchell	
		US4048412	09/13/77	Caumartin et al.	
		US4307209	12/22/81	Morita	
		US4338424	07/06/82	Morita et al.	
		US5352749	10/04/94	DeChellis et al.	
		US4352915	10/05/82	Mashita et al.	
		US4390666	06/28/83	Moriguchi et al.	
		US4414369	11/08/83	Kuroda et al.	
		US4420592	12/13/83	Kato et al.	
		US4438238	03/20/84	Fukushima et al.	
		US4461873	07/24/84	Bailey et al.	
		US4522987	06/11/85	Hogan et al.	
		US4511704	04/16/85	Tanaka et al.	
		US4543399	09/24/85	Jenkins et al.	
		US4547551	10/15/85	Bailey et al.	
		US4550143	10/29/85	Tanaka et al.	
		US4588790	05/13/86	Jenkins	

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		Number-Kind Code ² (if known)			
		US4603173	07/29/86	Mack et al.	
		US4665143	05/12/87	Ahluwalia et al.	
		US4703094	10/27/87	Raufast	
		US4786697	11/22/88	Cozewith et al.	
		US4789714	12/06/88	Cozewith et al.	
		US4790676	12/13/88	Kaisha	
		US4792588	12/20/88	Suga et al.	
		US4835219	05/30/89	Tajima et al.	
		US4859749	08/22/89	Franke	
		US4882400	11/21/89	Dumain et al.	
		US4963622	10/16/90	Heitz	
		US4996011	02/26/91	Sano et al.	
		US5019627	05/28/91	Honma et al.	
		US5032562	07/16/91	Lo et al.	
		US5047468	09/10/91	Lee et al.	
		US5082902	01/21/92	Gurevitch et al.	
		US5102955	04/07/92	Calabro et al.	
		US5126398	06/30/92	Lee et al.	
		US5166281	11/24/92	Chamla	

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		Number-Kind Code ² (if known)			
		US5258449	11/02/93	Firdaus et al.	
		US5260384	11/09/93	Morimoto et al.	
		US5284613	02/08/94	Ali et al.	
		US5278272	01/11/94	Lai et al.	
		US5290745	03/01/94	Jorgensen et al.	
		US5306775	04/26/94	Martin et al.	
		US5332706	07/26/94	Nowlin et al.	
		US5338589	08/16/94	Bohm et al.	
		US5352749	10/04/94	DeChellis	
		US5371146	12/06/94	Takahashi	
		US5374700	12/20/94	Tsutsui	
		US5380803	01/10/95	Coutant et al.	
		US5382630	01/17/95	Stehling et al.	
		US5387749	02/07/95	Govoni et al.	
		US5399540	03/21/95	Kuo et al.	
		US5405817	04/11/95	Kuo et al.	
		US5405901	04/11/95	Daniell	
		US5408015	04/18/95	Hsieh et al.	
		US5436304	07/25/95	Griffin et al.	

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		First Named Inventor	Michie et al.
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Sheet 4	of 11	Attorney Docket Number	63138A

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		Number-Kind Code ² (if known)			
		US5455303	10/03/95	Panagopoulos et al.	
		US5459217	10/17/95	Todo et al.	
		US5464905	11/07/95	Tsutsui et al.	
		US5464906	11/07/95	Patton et al.	
		US5473028	12/05/95	Nowlin et al.	
		US5478898	12/26/95	Standaert et al.	
		US5494871	02/27/96	Brun et al.	
		US5494965	02/27/96	Harlin et al.	
		US5503914	04/02/96	Michie et al.	
		US5519091	05/21/96	Tsutsui et al.	
		US5525678	06/11/96	Mink et al.	
		US5527867	06/18/96	Bergmeister	
		US5539076	07/23/96	Nowlin et al.	
		US5635262	06/03/97	Best et al.	
		US5648422	07/15/97	Collina et al.	
		US5688865	11/18/97	Ali et al.	
		US5693719	12/02/97	Goto et al.	
		US5728353	03/17/98	Govoni et al.	
		US5728335	03/17/98	Neubauer	

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Sheet 5	of 11	Attorney Docket Number	63138A

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		Number-Kind Code ² (if known)			
		US5925448	07/20/99	Moy et al.	
		US6028140	02/22/00	Collina et al.	
		US6107454	08/22/00	Schmieg et al.	
		US6124428	09/26/00	Schmieg et al.	
		US6124520B1	09/26/00	Roberts	
		US6147167	11/14/00	Mack et al.	
		US6180721B1	01/30/01	Rogestedt et al.	
		US6185349B1	02/06/01	Dammert	
		US6187866	02/13/01	Jorgensen et al.	
		US6194520	02/27/01	Cheruyu et al.	
		US6218472B1	04/17/01	Debras et al.	
		US6242543B1	06/05/01	Follestad et al.	
		US6248831	06/19/01	Maheshwari et al.	
		US6225420B1	05/01/01	Palmqvist et al.	
		US6316546B1	11/13/01	Ong et al.	
		US6329054B1	12/11/01	Rogestedt et al.	
		US6346575B1	02/12/02	Debras et al.	
		US6372864	04/16/02	Brown	
		US6388017	05/14/02	McDaniel	

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		Number-Kind Code ² (if known)			
		US6433095B1	08/13/02	Laurent	
		US6,455,642	09/24/02	Myhre et al.	
		US6454976	09/24/02	Neubauer	
		US6455642B1	09/24/02	Myhre et al.	
		US6458911B1	10/01/02	Ong et al.	
		US6479589B1	11/12/02	Debras et al.	
		US6485662	11/26/02	Neubauer et al.	
		US6486270B1	11/26/02	Garrison et al.	
		US6486284B1	11/26/02	Karande et al.	
		US6511935	01/28/03	Job	
		US6518376B2	02/11/03	Benham et al.	
		US2003/0040588	02/27/03	Garrison et al.	
		US2002/0042472A1	04/11/02	Ong et al.	

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		First Names Inventor	Michie et al.
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		Examiner Name	Not Assigned
Sheet 7	of 11	Attorney Docket Number	Error! Reference source not found.

FOREIGN PATENT DOCUMENTS						
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		EP0121740B1	05/08/91	Matsuo et al.		<input type="checkbox"/>
		EP0302242B1	07/05/88	Franke		<input type="checkbox"/>
		EP369436B1	05/15/96	Lee		<input type="checkbox"/>
		EP0398350A2	11/22/90	Nakacho et al.		<input type="checkbox"/>
		EP0435624A1	07/03/91	Calabro et al.		<input type="checkbox"/>
		EP0503791A1	09/16/92	Ali et al.		<input type="checkbox"/>
		EP0517868B1	11/15/95	Ahvenainen et al.		<input type="checkbox"/>
		EP0528523A1	02/24/93	Ong et al.		<input type="checkbox"/>
		EP0533160A1	03/24/93	Coutant et al.		<input type="checkbox"/>
		EP0533452A1	03/24/03	Ali et al.		<input type="checkbox"/>
		EP0536160A1	08/12/98	Ouellet		<input type="checkbox"/>
		EP0551485B1	02/18/93	Govoni et al.		<input type="checkbox"/>
		EP0574821A2	12/22/93	Govoni et al.		<input type="checkbox"/>
		EP0580930A1	02/02/94	Debras		<input type="checkbox"/>
		EP603935A1	6/29/94	Promel		<input type="checkbox"/>
		EP0619325A1	10/12/94	Abbas		<input type="checkbox"/>
		EP0649860A1	04/26/95	Debras		<input type="checkbox"/>
		EP0700769	03/13/96	Paina		<input type="checkbox"/>
		EP0702030A1	05/25/92	Winter et al.		<input type="checkbox"/>
		WO9207905	05/14/92	Parikh et al.		<input type="checkbox"/>
		WO9217539	10/15/92	Caulfield et al.		<input type="checkbox"/>
		WO05012371	02/10/05	Upham et al.		<input type="checkbox"/>

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		Application Number	10/553,788
		Filing Date	October 20, 2005
		First Names Inventor	Michie et al.
		Art Unit	Not Assigned
		Examiner Name	Not Assigned
Sheet 8	of 11	Attorney Docket Number	Error! Reference source not found.

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Country Code ³ - Number-Kind Code ⁵ (if known)	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		WO9212182	07/23/92	Ahvenainen et al.		<input type="checkbox"/>
		WO9222565A1	12/23/92	Venot et al.		<input type="checkbox"/>
		WO9315118	08/05/93	Nooyen et al.		<input type="checkbox"/>
		WO1994006849(A1)	03/31/94	Bergevin		<input type="checkbox"/>
		WO9412568	06/09/94	Chambon et al.		<input type="checkbox"/>
		WO9422948A1	10/13/94	Harlin et la.		<input type="checkbox"/>
		WO9428064	12/08/94	Agarwal		<input type="checkbox"/>
		WO9507305	03/16/95	Knuutila et al.		<input type="checkbox"/>
		WO9513871	05/26/95	Lo et al.		<input type="checkbox"/>
		WO9517434	06/29/95	Ali et al.		<input type="checkbox"/>
		WO9534380	12/21/95	Hagerty et al.		<input type="checkbox"/>
		WO9849209	11/05/98	Barry et al.		<input type="checkbox"/>
		WO9948934	09/30/99	Clutton, et al.		<input type="checkbox"/>
		WO9955749	11/04/99	Debras		<input type="checkbox"/>
		WO0018813	04/06/00	Debras et al.		<input type="checkbox"/>
		WO0018814	04/06/00	Debras et al.		<input type="checkbox"/>
		WO0022040	04/20/00	Backman et al.		<input type="checkbox"/>
		WO95/10548A1	04/20/95	Debras		<input type="checkbox"/>
		WO9526990A1	10/12/95	Henry et al.		<input type="checkbox"/>
		WO00/58375	10/05/00	Debras et al.		<input type="checkbox"/>
		EP676418	07/26/00	Pratt et al.		<input type="checkbox"/>
						<input type="checkbox"/>

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Sheet 9	of 11	Attorney Docket Number	63138A Error! Reference source not found.

FOREIGN PATENT ABSTRACTS						
Examiner Initials*	Cite No. ¹	Document Number	Publication Date (MM-DD- YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number-Kind Code ⁵ (if known)				
		JP 05320245-A	12/03/93	Nobuhide		<input type="checkbox"/>
		JP 05255440 - A	10/05/93	Isamu		<input type="checkbox"/>
		JP 05311016-A	11/22/93	Hatsuo et al.		<input type="checkbox"/>
		JP 54161657	06/13/78	Tooru et al.		<input type="checkbox"/>
		JP 04106138	08/25/90	Yoshio et al.		<input type="checkbox"/>
		JP 62020543-A	07/19/87	Koji et al.		<input type="checkbox"/>
		JP07070235-A	05/20/94	Haafunaa et al.		<input type="checkbox"/>
		JP 07070238-AA	03/14/95	Masaki et al.		<input type="checkbox"/>
		JP 07126316-A	11/05/93	Hisashi et al.		<input type="checkbox"/>
		JP 07138321-A	11/18/93	Eiji		<input type="checkbox"/>
		JP 07258480-A	03/25/94	Hideo et al.		<input type="checkbox"/>
		JP 07304830-A	11/21/95	Toshiyuki		<input type="checkbox"/>
		JP-08003384-A	10/09/96	Satoru et al.		<input type="checkbox"/>
		JP 06287363-A	10/11/94	Satoshi		<input type="checkbox"/>
		JP 08041253-A	02/13/96	Meiji et al.		<input type="checkbox"/>
		JP 162819/1985	02/03/87	Junichi et al.		<input type="checkbox"/>
		JP162821/1984	02/03/87	Shigeki et al.		<input type="checkbox"/>
		JP 07309981	11/28/95	Mamoru et al.		<input type="checkbox"/>
		JP 08325332	12/10/96	Takeichi et al.		<input type="checkbox"/>
		JP 270181/1984	n/a	n/a		<input type="checkbox"/>
		JP 7276712 A	10/24/94	Minka et al.		<input type="checkbox"/>

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Sheet 11	of 11	Attorney Docket Number	Error! Reference source not found.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		Zimm, G.H. and Stockmayer, W.H., <u>J Chem. Phys.</u> , 17, 1301 (1949)	<input type="checkbox"/>
		Rudin, A., <u>Modern Methods of Polymer Characterization</u> , John Wiley & Sons, New York (1991) pp.103-112	<input type="checkbox"/>
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